



ELECTRONIC TUBE REFERENCE

1G3GT

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

High-voltage television flyback/EHT rectifier designed to convert horizontal-output transformer pulses into the DC accelerating supply required by the CRT.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	1.25 V / 200 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	33000 V
NOMINAL OUTPUT CURRENT	1.1 mA
PEAK FORWARD CURRENT	50 mA
FORWARD VOLTAGE DROP	100 V
<i>Promoted values use primary pulse-rectifier service; RF rectifier service 33 kV PIV retained separately.</i>	

1G3GT is a Rectifier device. High-voltage diode/half-wave rectifier for television flyback or other high-voltage service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1961 TUNG SOL

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	1.25 V	Nominal
Filament Current	200 mA	Nominal
InversePlateVoltageTotalDcAndPeak	26000 V	PulseRectifierService
InversePlateVoltageDc	21000 V	PulseRectifierService
Peak Plate Current	50 mA	PulseRectifierService
Average Plate Current	0.5 mA	PulseRectifierService
Peak Inverse Plate Voltage	33000 V	RFRectifierService
Peak Plate Current	30 mA	RFRectifierService
Average Plate Current	1 mA	RFRectifierService
SupplyFrequencyRange	1.5-100 kHz	RFRectifierService
Filament Voltage Minimum	1.05 V	—
FilamentVoltageAverage	1.25 V	—
Filament Voltage Maximum	1.45 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate To Filament And Internal Shield Capacitance	1.3 pF	WithoutExternalShield;Approx

1965 Westinghouse Data Book

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1965 WESTINGHOUSE DATA BOOK

Section 1 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	1.25 V	—
Filament Current	200 mA	—
Plate-to-Filament Capacitance	1.3 pF	—
Tube Voltage Drop	100 V	PlateCurrent=7mA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Plate Voltage	26000 V	Flyback
Steady-State Peak Plate Current	50 mA	—
DC Output Current	1 mA	—
RF Rectifier Absolute Maximum Inverse Voltage	33000 V	RFRectifier



SOURCE DATA APPENDIX

1966 Tung Sol Electronic Tubes 1 of 4

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament/heater voltage	1.25 V	—
Filament/heater current	200 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum total DC-plus-peak inverse voltage	—30000 V	FlybackRectifier
Maximum steady-state peak plate current	50 mA	FlybackRectifier
Maximum DC output current	0.5 mA	FlybackRectifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-to-filament/heater capacitance	1.5 pF	Approximate



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1968 GENERAL ELECTRIC CO

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse plate voltage DC component	21000 V	FlybackRectifier
Peak inverse plate voltage total DC and peak	26000 V	FlybackRectifier
Steady state peak plate current	50 mA	FlybackRectifier
DC output current	0.5 mA	FlybackRectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	100 V	I _b =7mA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Interelectrode capacitance	1.3 pF	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 4 of 7

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1971 RCA HB3 BINDER 4 OF 7

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	1.25 V	—
Heater/filament current	200 mA	—
Peak inverse plate voltage total DC plus peak	26000 V	PulsedRectifier
Maximum DC component of inverse plate voltage	22000 V	PulsedRectifier
Peak plate current	50 mA	PulsedRectifier
Average plate current	0.5 mA	PulsedRectifier
Peak inverse plate voltage	33000 V	RFRectifier
Peak plate current	35 mA	RFRectifier
Average plate current	1.1 mA	RFRectifier
Supply-frequency range minimum	1.5 kHz	RFRectifier
Supply-frequency range maximum	100 kHz	RFRectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	100 V	PlateCurrent=7mA

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	High-voltage half-wave pulsed rectifier	TelevisionFlyback

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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